

IN THE CLAIMS:

Please ADD the following NEW claims:

38. (NEW) An apparatus comprising:
a plurality of transmitting devices, each comprising
a light source emitting a light,
a modulation signal generator generating an electrical modulation signal having a
corresponding rise time and fall time,
an adjusting circuit adjusting at least one of the rise time and fall time of the
electrical modulation signal, and
a modulator modulating the emitted light with the adjusted electrical modulation
signal, the emitted light of each light source being at a different wavelength than the emitted
light of the other light sources so that the plurality of transmitting devices thereby produce a
plurality of modulated lights, respectively, at different wavelengths; and
an optical multiplexer multiplexing the plurality of modulated lights into a wavelength
division multiplexed (WDM) light wherein, in each transmitting device, the adjusting circuit of the
respective transmitting device adjusts at least one of the rise time and fall time in accordance
with characteristics of the modulated light of the respective transmitting device at a receiver
receiving the respective modulated light from the WDM light.

39. (NEW) An apparatus comprising:
a light source emitting a light,
a modulation signal generator generating an electrical modulation signal having a
corresponding rise time and fall time,
an adjusting circuit adjusting at least one of the rise time and fall time of the electrical
modulation signal,
a modulator modulating the emitted light with the adjusted electrical modulation signal,
to thereby produce a modulated light; and
an optical multiplexer multiplexing the modulated light with lights at different
wavelengths than the light emitted by the light source, to thereby produce a wavelength division
multiplexed (WDM) light, wherein the adjusting circuit adjusts at least one of the rise time and
fall time in accordance with characteristics of the modulated light at a receiver receiving the
modulated light from the WDM light.
